

We claim:

1. A multilayer packaging for greasy products or part of such a packaging, comprising
  - 5 - a substrate layer of a polymeric material as the main component and
  - at least one layer applied to the substrate layer, which does not form the exterior of the packaging, and which comprises a high-amyllose starch derivative with an amylose content of at least 70% as the main component, wherein the high-amyllose starch derivative is a C<sub>2</sub>-C<sub>6</sub>-alkylene-oxide-modified starch derivative.
- 10 2. The multilayer packaging according to claim 1, wherein the high-amyllose starch derivative is a C<sub>2</sub>-C<sub>4</sub>-alkylene-oxide-modified starch derivative.
- 15 3. The multilayer packaging or part of such a packaging according to claim 1, wherein the C<sub>2</sub>-C<sub>6</sub>-alkylene oxide is propylene oxide.
- 20 4. The multilayer packaging or part of such a packaging according to any of the preceding claims, wherein the high-amyllose starch derivative is obtained by modifying if appropriate partially degraded maize, wheat, potato, HA-pea or tapioca starch.
- 25 5. The multilayer packaging or part of such a packaging according to any of the preceding claims, wherein the degree of derivatization of the starch derivative amounts to 0.1 to 1, more preferably to 0.1 to 0.4.
- 30 6. The multilayer packaging or part of such a packaging according to any of the preceding claims, wherein the polymeric material of the substrate layer is a naturally occurring polymer, preferably cellulose.
- 35 7. The multilayer packaging or part of such a packaging according to any of the preceding claims, wherein the layer comprising a high-amyllose starch derivative as main component comprises additional constituents selected among pigments, plasticizers, agents which improve the long-term stability, agents which improve the water resistance and agents which influence the elasticity.
- 40 8. The use of a C<sub>2</sub>-C<sub>6</sub>-alkylene-oxide-derivatized high-amyllose starch as main component of a layer of a multilayer packaging which is applied to a substrate layer of this packaging made of a polymeric material, for generating greaseproofness of the multilayer packaging.

9. The use according to claim 8, wherein the C<sub>2</sub>-C<sub>6</sub>-alkylene oxide is propylene oxide.
- 5 10. The use according to claim 8 or 9, wherein the starch derivative is obtained by modifying high-amyllose potato starch and, if appropriate, has a degree of derivatization of from 0.1 to 1, more preferably of from 0.1 to 0.4.
- 10 11. The use according to any of claims 8, 9 or 10, wherein a high-amyllose potato starch with an amylose content of at least 70% is used for the modification.
- 15 12. The use according to any of claims 8 to 11, wherein the abovementioned layer comprises additional components selected among pigments, plasticizers, agents which improve the long-term stability, agents which improve the water resistance, agents which improve the kit number and agents which influence the elasticity, preferably selected among glycerol, urea, borax or glyoxal.